D-Link[®]



User Manual

HD Wireless Outdoor Cloud Camera

DCS-2332L

Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes. Information in this document may become obsolete as our services and websites develop and change. Please refer to the www.mydlink.com website for the most current information.

Manual Revisions

Revision	Date	Description
1.0	October 23, 2012	DCS-2332L Revision A1 with firmware version 1.00

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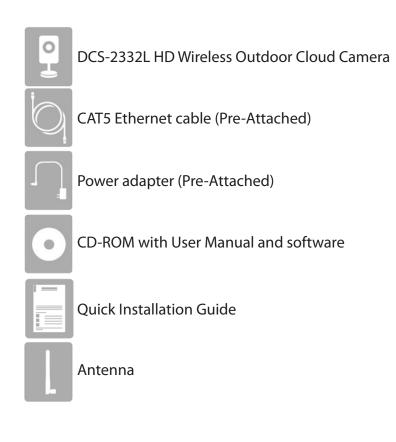
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Product Overview Package Contents



If any of the above items are missing, please contact your reseller.

Note: Using a power supply with a different voltage than the one included with your product will cause damage and void the warranty for this product.



Introduction

Congratulations on your purchase of the DCS-2332L HD Wireless Outdoor Cloud Camera. The DCS-2332L is a versatile and unique solution for your small office or home. Unlike a standard webcam, the DCS-2332L is a complete system with a built-in CPU and web server that transmits high quality video images for security and outdoor surveillance. The DCS-2332L can be accessed remotely, and controlled from any PC/Notebook over your local network or through the Internet via a web browser. The simple installation and intuitive web-based interface offer easy integration with your Ethernet/Fast Ethernet or 802.11n/g wireless network. The DCS-2332L also comes with remote monitoring and motion detection features for a complete and cost-effective home security solution.

System Requirements

- Computer with Microsoft Windows [®] 8/7/Vista/XP, or Mac with OS X 10.6 or higher
- PC with 1.3GHz or above and at least 128MB RAM
- Internet Explorer 7, Firefox 12, Safari 4, or Chrome 20 or higher version with Java installed and enabled
- Existing 10/100 Ethernet-based network or 802.11g/n wireless network

Features

Simple to Use

The DCS-2332L is a stand-alone system with a built-in CPU, requiring no special hardware or software. The DCS-2332L supports both ActiveX mode for Internet Explorer and Java mode for other browsers such as Firefox[®] and Safari[®].

Supports a Variety of Platforms

Supporting TCP/IP networking, HTTP, and other Internet related protocols. The DCS-2332L can also be integrated easily into other Internet/Intranet applications because of its standards-based features.

Web Configuration

Using a standard Web browser, administrators can configure and manage the Network Camera directly from its own Web page via Intranet or Internet. This means you can access your DCS-2332L anytime, anywhere in the world.

Broad Range of Applications

With today's high-speed Internet services, the Network Camera can provide the ideal solution for delivering live video images over the Intranet and Internet for remote monitoring. The Network Camera allows remote access using a Web browser for live image viewing, and allows the administrator to manage and control the Network Camera anytime, anywhere in the world. Many applications exist, including industrial and public monitoring of homes, offices, banks, hospitals, child-care centers, and amusement parks.

Remote Monitoring Utility

The D-ViewCam application adds enhanced features and functionality for the Network Camera and allows administrators to configure and access the Network Camera from a remote site via Intranet or Internet. Other features include image monitoring, recording images to a hard drive, viewing up to 32 cameras on one screen, and taking snapshots.

IR LED for Day and Night Functionality

The built-in infrared LEDs enables night time viewing of up to 16 feet (5 meters).

IP65 Weatherproof Housing

The DCS-2332L uses an IP65 weatherproof housing, allowing you to rest assured that in the toughest of conditions, it will continue to provide round-the-clock surveillance.

802.11n Wireless or Ethernet/Fast Ethernet Support

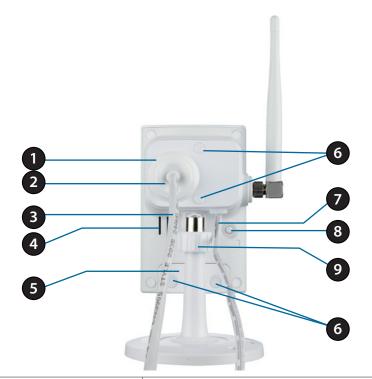
The DCS-2332L offers wireless 802.11n and Ethernet/Fast Ethernet connectivity, making the DCS-2332L easy to integrate into your existing network environment. The DCS-2332L works with a 10Mbps Ethernet based network or 100Mbps Fast Ethernet based network for traditional wired environments, and works with 802.11n routers or access points for added flexibility. The Site Survey feature also allows you to view and connect to any available wireless networks.

Hardware Overview Front

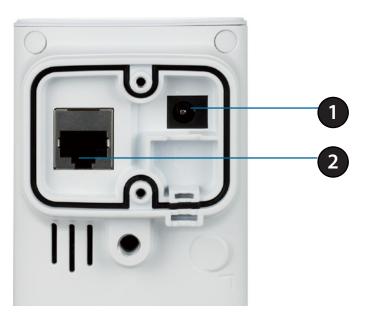


1	Camera Lens	Records video of the surrounding area
2	ICR Sensor	The IR-Cut Removable sensor measures the lighting conditions and switches between color and infrared accordingly
3	Microphone	Records audio from the surrounding area
4	PIR	Passive Infrared sensor for motion detection
5	IR LED	Infrared LED illuminates the camera's field of view at night
6	WPS Status LED	Indicates the WPS connection status of the camera
7	Power/Status LED	Indicates the camera's current status
8	Antenna	Outdoor wireless antenna

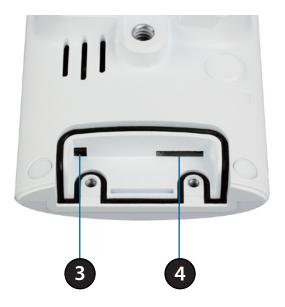
Rear: External



1	Weatherproof Cover	Weatherproof protective panel
2	Protective Cable Cover	Weatherproof cable connection cover
3	Ethernet Cable	RJ45 Ethernet cable to connect to your network
4	Speaker	Audio output
5	Weatherproof Cover	Weatherproof cover for the MicroSD Card slot and reset button
6	Weatherproof Screw Covering	Weatherproof protective covering for enclosure screws
7	Power Cable	Connected to the included DC 5 V power adapter
8	WPS Button	Press this button, then press the WPS button for 5 seconds on your router to set up a wireless connection automatically
9	Adjustment Ring	Tighten or loosen the adjustment ring to adjust the camera's position

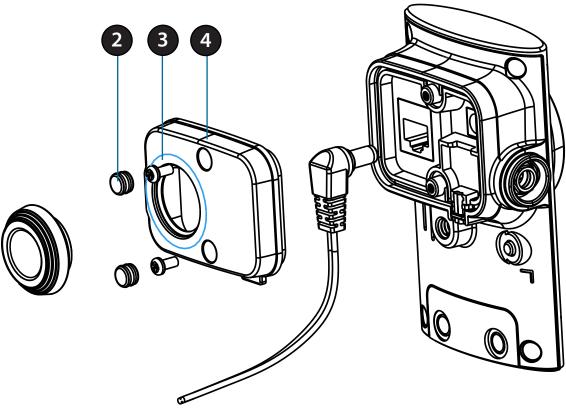


Rear: Internal



1	DC Power Connector	Connected to the included DC 5 V power adapter
2	RJ45 Ethernet Port	RJ45 connector for Ethernet
3	3Reset ButtonUse a paperclip or similar tool to press and hold the recessed button10 seconds to reset the camera	
4	SD Memory Card Slot	Insert a MicroSD card for for storing recorded images and video

Removing the Top Panel



Step 1: Place the camera face down on a non-slip flat surface.

Step 2:

Carefully pry out the two protective rubber screw coverings using a thin flat blade.

Step 3:

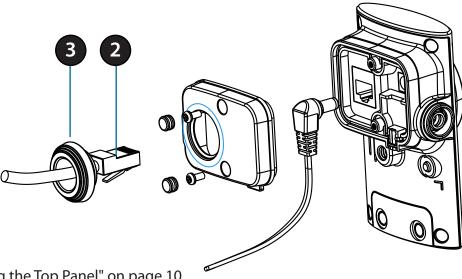
Undo the two screws using a Philips #00 Screwdriver.

Step 4:

Lift off the protective panel.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.

Replacing the Ethernet Cable



Step 1:

Follow the steps outlined in "Removing the Top Panel" on page 10.

Step 2:

Unplug the Ethernet cable from the RJ45 connector.

Step 3:

Carefully remove the weatherproof cable connection cover.

Step 4:

Attach the weatherproof cable connection cover to the new Ethernet cable.

Step 5:

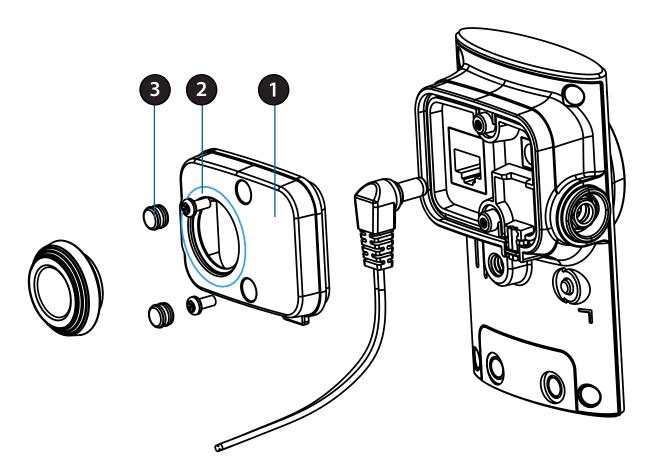
Plug the new Ethernet cable into the RJ45 connector.

Step 6:

Follow the steps outlined in "Reattaching the Top Panel" on page 12.

Note: To avoid damage to the weatherproof aspects of the camera, users are advised not to remove the rear cable connection covering. To use a longer Ethernet cable install a coupling adaptor.

Reattaching the Top Panel



Step 1:

Seat the protective panel, ensuring a tight fit with the inlaid rubber seal.

Step 2:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 3:

Firmly replace the protective rubber screw coverings.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.

Removing the Bottom Panel

Step 1:

Place the camera face down on a non-slip flat surface.

Step 2:

Carefully pry out the two protective rubber screw coverings using a thin flat blade.

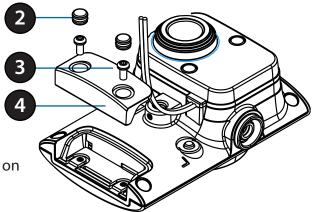
Step 3:

Undo the two screws using a Philips #00 Screwdriver.

Step 4:

Lift off the protective panel.

If you need to install an SD Memory Card please skip to "Installing an SD Memory Card" on page 14.



Using the Reset Button

If you need to use the Reset Button follow these steps.

Step 1:

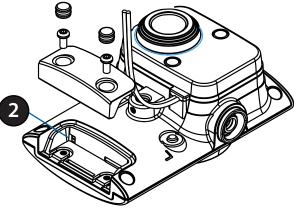
Follow the steps outlined in "Removing the Bottom Panel" on page 13.

Step 2:

Using a paperclip or similar tool, press and hold the Reset Button for 10 seconds. This will reset the device to it's factory settings.

Step 3:

Follow the steps outlined in "Reattaching the Bottom Panel" on page 14.



Installing an SD Memory Card

Step 1:

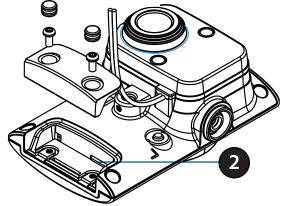
Follow the steps outlined in "Removing the Bottom Panel" on page 13.

Step 2:

Insert a MicroSD Memory card into the slot, with the notch facing right.

Step 3:

Follow the steps outlined in "Reattaching the Bottom Panel" on page 14.



Reattaching the Bottom Panel

Step 1:

Seat the protective panel, ensuring a tight fit with the inlaid rubber seal.

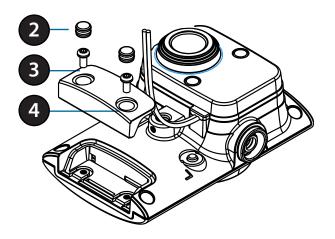
Step 2:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 3:

Firmly replace the protective rubber screw coverings.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.



Optional: WPS Wireless Connection

Alternatively, if your router supports WPS, you can use the WPS button on the camera to easily create a secure wireless connection to your network.

To create a WPS connection:

Step 1

Attach the Antenna

Locate the antenna included with your DCS-2332L, and attach it to the antenna connector located on the side of the DCS-2332L.

Step 2

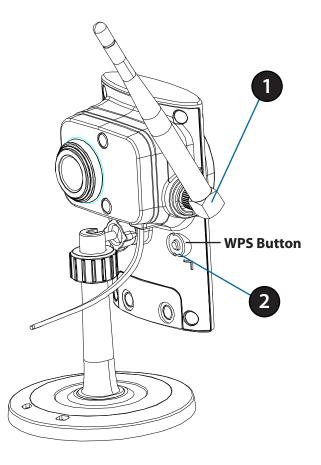
Press and hold the WPS button for approximately 5-6 seconds. The blue WPS status LED on the front panel will blink.

Step 3

Within 60 seconds press the WPS button on your router. On some routers, you may need to log in to the web interface and click on an on-screen button to activate the WPS feature. If you are not sure where the WPS button is on your router, please refer to your router's User Manual.

The DCS-2332L will automatically create a wireless connection to your router. While connecting, the status LED will flash. When the connection process is complete, the status LED will turn solid.

Note: If your router does not support WPS, you can still use the wired connection method on the previous page. After Zero Configuration setup is complete, your router's wireless settings will be automatically transferred to the camera.



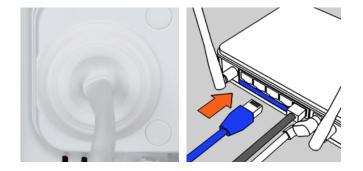
Installation Zero Configuration Setup

If you have a mydlink-enabled Cloud Router, you can take advantage of Zero Configuration. Zero Configuration automatically configures your camera's settings for you, and adds it to your mydlink account automatically. This type of setup allows you to set up your camera by simply plugging it in and connecting it to your router.

Connect your camera to your mydlink-enabled Cloud Router and Zero Configuration will automatically configure your DCS-2332L and automatically add the camera to your mydlink account. After the short time it takes to do this you can remotely access your camera from the www.mydlink.com website to manage and monitor your DCS-2332L.

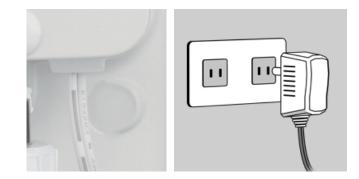
Connect the Ethernet Cable

Using the pre-attached Ethernet cable connect the free end to your network.



Attach the External Power Supply

Attach the external power supply to your wall outlet or power strip.



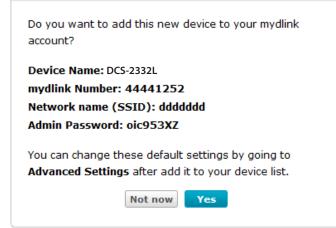
Check Your mydlink Account

Open a web browser and login to your mydlink account. The mydlink page will check for new devices and display a **New device Found!** pop-up notification in the bottom-left corner. Click the notification to continue.

mydlink My Devices My Profi DIR-605L Router Status Settings 20019862 DIR-605L 192.168.1.103 LANI 192,168.0.1 0000.3ke Connected David 🕏 0008.Чкв C Device Device Name IP Address MAC Address Block Ω, 192.168.0.110 00:26:20:02 FE:FA CardboardBox 192.168.0.120 04:54:53:50:53:18 192.168.0.100 00.1A-92 E2 4D C9 192,168.0.121 28:E0:20:0C:0A:BE 192.168.0.101 F0:A2:25:AA:80:03 Suspect List Device Name Time MAC Address Block DC 5-23321

A summary and confirmation notification will appear with the automatically configured details. Make a note of the details and click **Yes** to add the camera to your account.

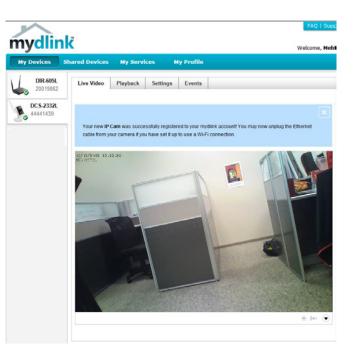
Confirming New Device



Zero Configuration will navigate to the mydlink Live View tab for your camera where you will see a screen similar to the following.

If you wish to connect your camera to your router wirelessly, you can simply disconnect the Ethernet cable and move the camera to its intended location; your router's wireless settings have been automatically transferred to the camera, and no further configuration is required.

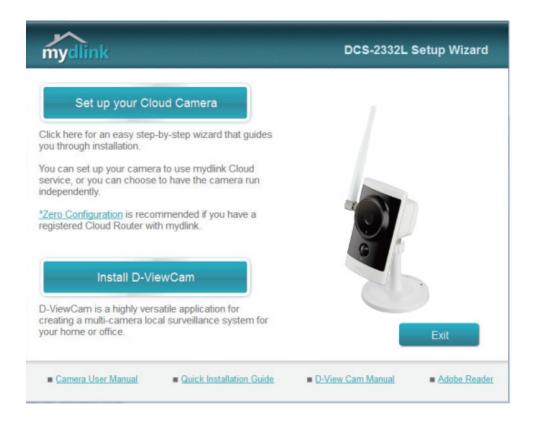
Your camera is now set up, and you can skip to "mydlink" on page 23 to learn more about the mydlink features of this camera, or to "Configuration" on page 24 for advanced configuration of your camera.



Camera Installation Wizard Windows Users

Insert the Installation CD-ROM into your computer's optical drive to start the autorun program.

Simply click Set up your Cloud Camera to go through the Setup Wizard, which will guide you step-by-step through the installation process from connecting your hardware to configuring your camera and registering it with your mydlink account.



Note: If the autorun program does not open, go to My Computer, browse to your CD drive, and double-click on the setup.exe file.

Mac Users

Insert the Installation CD-ROM into your computer's CD drive. On the desktop, open your CD drive and double-click on the **SetupWizard** file.



Within 20-30 seconds, the Setup Wizard will open, which will guide you step-by-step through the installation process from connecting your hardware to configuring your camera and registering it with your mydlink account.

mydlink	DCS-2332L Setup Wizard
Welcome You will be able to set up your Cloud Camera to use mydlink Cloud service, or you can choose to have the camera run independently.	
Select your language: English Start	
Troubleshooting Downloads	About Exit
Troubleshooting Downloads Copyright © 2012 <u>D-Link Corporatio</u>	alterative a construction

Note: mydlink portal requires JavaTM to function correctly. For more guidelines, please refer to mydlink FAQ pages at https://eu.mydlink.com/faq/mydlink

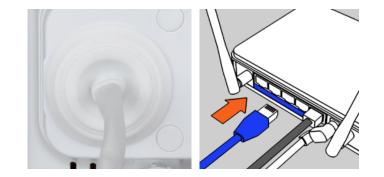
Manual Hardware Installation

If you wish to set up your camera without using the Camera Setup Wizard, please follow these steps.

Note: In order to use the mydlink features of this product, you will need to go through the Camera Setup Wizard.

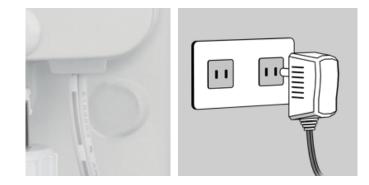
Connect the Ethernet Cable

Using the pre-attached Ethernet cable connect the free end to your network.



Attach the External Power Supply

Attach the external power supply to your wall outlet or power strip.



SD Memory Card Installation

The SD memory card slot is housed behind the lower protective panel on the rear of the device.

Step 1:

Place the camera face down on a non-slip flat surface

Step 2:

Carefully pry out the two lower protective rubber grommets using a thin flat blade.

Step 3:

Undo the two screws using a Philips #00 Screwdriver.

Step 4: Lift off the protective panel.

Step 5: Insert a MicroSD Memory Card.

Step 6: Replace the protective panel.

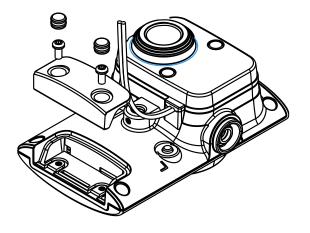
Step 7:

Replace the two screws. Ensure that the screws are tightened firmly.

Step 8:

Firmly replace the protective rubber grommets.

Note: To ensure that the camera stays weatherproof, users are advised to ensure that all the rubber seals are secured firmly in place.



mydlink

After registering your DCS-2332L camera with a mydlink account in the Camera Installation Wizard, you will be able to remotely access your camera from the www.mydlink.com website. After signing in to your mydlink account, you will see a screen similar to the following:



For more details on using your camera with mydlink, go to the **Support** section of the mydlink website and check the **User Manual** section for your product to find the latest instruction guide for your camera's mydlink features.

Configuration Using the Configuration Interface

After completing the Camera Installation Wizard, you are ready to use your camera. The camera's built-in Web configuration utility is designed to allow you to easily access and configure your DCS-2332L. At the end of the wizard, enter the IP address of your camera into a web browser, such as Mozilla Firefox. To log in, use the User name **admin** and the password you created in the Installation Wizard. If you did not create a password, the default password is blank. After entering your password, click **OK**.

Windows Security	×
The server 192.	168.0.102 at DCS-2332L requires a username and password.
	erver is requesting that your username and password be sure manner (basic authentication without a secure
	User name Password Remember my credentials
	OK Cancel

Live Video

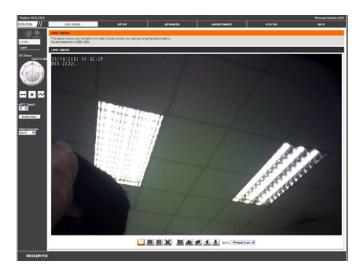
This section shows your camera's live video. You may select any of the available icons listed below to operate the camera. You may also select your language using the drop-down menu on the left side of the screen.

You can zoom in and out on the live video image using your mouse. Right-click to zoom out or left-click to zoom in on the image.

1	Motion Trigger Indicator	This indicator will change color when a trigger event occurs.
		Note: The video motion feature for your camera must be enabled.
REC	Recording Indicator	When a recording is in progress, this indicator will change color.
	Control Pad	This control pad can be used to electronically pan, tilt, and zoom (ePTZ) within the camera's predefined view area, if one has been defined.
¢	Auto Pan	Starts the automatic panning function. The ROI will pan from back and forth within the FOV
×	Stop	Stops the camera ePTZ motion
\sim	Preset Path	Starts the camera's motion along the predefined path

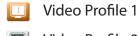
SD Status: This option displays the status of the SD card. If no SD card has been inserted, this screen will display the message "Card Invalid."

ePTZ Speed: You may select a value between 0 and 64.0 is the slowest and 64 is the fastest.



Global View: This window indicates the total field of view (FOV) of the camera. The red box indicates the visible region of interest (ROI).

Language: You may select the interface language using this menu.



Record a Video Clip

- Video Profile 2
- Video Profile 3

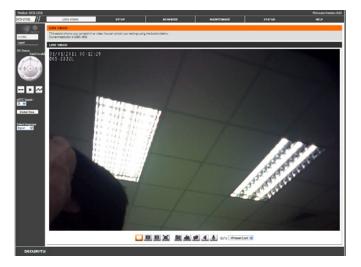
0

Full screen mode

Taking a Snapshot

- Set a Storage Folder
- Listen/Stop Audio In (from microphone)
- Start/Stop Audio Out (to speaker)

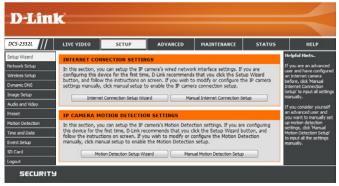
Go To: If any presets have been defined, selecting a preset from this list will (Preset List) display it.



Setup Setup Wizard

To configure your Network Camera, click **Internet Connection Setup Wizard**. Alternatively, you may click **Manual Internet Connection Setup** to manually configure your Network Camera and skip to "Network Setup" on page 33.

To quickly configure your Network Camera's motion detection settings, click **Motion Detection Setup Wizard**. If you want to enter your settings without running the wizard, click **Manual Motion Detection Setup** and skip to "Motion Detection" on page 44.



Internet Connection Setup Wizard

This wizard will guide you through a step-by-step process to configure your new D-Link Camera and connect the camera to the internet. Click **Next** to continue.

welcome to d-link setup wizard - internet connection setup

This wizard will guide you through a step-by-step process to configure your new D-Link IP camera and connect the IP camera to the internet. To set-up your camera motion detection settings, please click Back button to close this wizard and re-open the motion detection setup wizard.

Step 1: Setup LAN Settings
Step 2: Setup DDNS Settings

- Step 2: Secup Dono Securgo
 Step 3: IP camera Name Settings
- Step 4: Setup Time Zone
 Back Next Cancel

Note: Select DHCP if you are unsure of which settings to choose.

Click Next to continue.

Step 1: Setup LAN Settings

Please select whether your IP camera will connect to the Internet with a DHCP connection or Static IP address. If your IP camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of DHCP connection. Otherwise, dick on Static IP address to manually assign and IP address before clicking on the Next button. Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button. Please contact your ISP if you do not know your Username and Password.

۲	DHCP		
$^{\odot}$	Static IP Client		
	IP address	192.168.0.101	
	Subnet mask	255.255.255.0	
	Default router	192.168.0.1	
	Primary DNS	192.168.0.1	
	Secondary DNS	0.0.0.0	
	Enable PPPoE		
	User Name		
		(e.g. 654321@hinet.net)	
	Password		
	Back	lext Cancel	

Select **Static IP** if your Internet Service Provider has provided you with connection settings, or if you wish to set a static address within your home network. Enter the correct configuration information and click **Next** to continue.

If you are using PPPoE, select **Enable PPPoE** and enter your user name and password, otherwise click **Next** to continue.

If you have a Dynamic DNS account and would like the camera to update your IP address automatically, Select **Enable DDNS** and enter your host information. Click **Next** to continue.

Enter a name for your camera and click **Next** to continue.

Step 1: Setup LAN Settings

Please select whether your IP camera will connect to the Internet with a DHOP connection or Static IP address. If your IP camera is connected to a router, or you are unsure which settings to pick, D-Link recommends that you keep the default selection of IPLP connection. Otherwise, dick on Static IP address to manually assign and IP address before clicking on the Next button.Please enter your ISP Username and Password in the case that your ISP is using PPPoE and then click on the Next button.Please contact your ISP flow on to know your Username and Password.

۲	DHCP			
Ô	Static IP Client			
	IP address	192.168.0.101		
	Subnet mask	255.255.255.0		
	Default router	192.168.0.1		
	Primary DNS	192.168.0.1		
	Secondary DNS	0.0.0.0		
	Enable PPPoE			
	User Name			
		(e.g. 654321@hinet.net	t)	
	Password			
	Back	ext Cancel		

Step 2: Setup DDNS Settings

If you have a Dynamic DNS account and would like the IP camera to update your IP address automatically, enable DDNS and enter in your host information below. Please click on the Next button to continue.

Enable DDNS		
Server Address	www.dlinkddns.com << www.dlinkddns.com	-
Host Name		
User Name		
Password		
Verify Password		
Timeout	24 (hours)	
	Back Next Cancel	

Step 3: IP camera Name Settings



Back Next Cancel

Configure the correct time to ensure that all events will be triggered as scheduled. Click **Next** to continue.

Step 4: Setup Time Zone		
Please configure the correct time to ensure that all events are triggered, captured and scheduled at the correct time and day and then click on the Next button.		
Time Zone	(GMT+08:00) Taipei 🔹]
Enable Daylight Saving		
	Back Next Cancel	

If you have selected DHCP, you will see a summary of your settings, including the camera's IP address. Please write down all of this information as you will need it in order to access your camera.

Click **Apply** to save your settings.

Step 5: Setup complete

	Back button to review or modify settings or click on the Apply down these settings in order to access your IP camera on the
IP Address	DHCP
IP camera Name	e DCS-2332L
Time Zone	(GMT+08:00) Taipei
DDNS	Disable
PPPoE	Disable
Back	Apply Cancel

Motion Detection Setup Wizard

This wizard will guide you through a step-by-step process to configure your camera's motion detection functions.

Click Next to continue.

Step 1

This step will allow you to enable or disable motion detection, specify the detection sensitivity, and adjust the camera's ability to detect movement.

You may specify whether the camera should capture a snapshot or a video clip when motion is detected.

Please see **"Motion Detection" on page 44** for information about how to configure motion detection.

Step 2

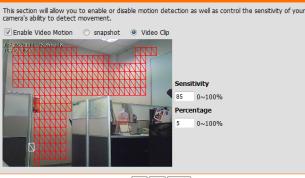
This step allows you to enable motion detection based on a customized schedule. Specify the day and hours. You may also choose to always record motion.



Step 1: Specify Motion Detection Area Settings

Welcome To D-LINK Setup Wizard - Motion Detection

wizard. Otherwise click on the Next button to begin.



This wizard will guide you through a step-by-step process to configure your IP camera's motion detection functions. To setup the IP camera LAN or Internet settings, please dick on the Back button to close this wizard and re-open the IP camera Setup

Step 1: Specify Motion Detection Area Settings
Step 2: Motion Detection Schedule

Back Next Cancel

Step 3: Alerts and Notifications

Back Next Cancel

step 2: Motion Detection Schedule

This final step allows you to specify how you receive notification of camera events. Choose between an email notification or alternatively you can setup an FTP Notification. You will need your email account settings or FTP details. If PP details. If PP details information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. Once you have entered this information, please contact your ISP. The ISP.

D-Link DCS-2332L User Manual

Step 3

This step allows you to specify how you will receive event notifications from your camera. You may choose not to receive notifications, or to receive notifications via e-mail or FTP.

Please enter the relevant information for your e-mail or FTP account.

Click Next to continue.

Step 4

You have completed the Motion Detection Wizard.

Please verify your settings and click **Apply** to save them.

Please wait a few moments while the camera saves your settings and restarts.

email notification or alternatively you c	w you receive notification of camera events. Choose between an an setup an FTP Notification. You will need your email account ire of this information, please contact your ISP. Once you have in the Next button.
Do not notify me	
Email	
Sender email address	
Recipient email address	
Server address	
User name	
Password	
Port	25
© FTP	
Server address	
Port	21
User name	
Password	
Remote folder name	
	Back Next Cancel

Step 3: Alerts and Notification

Step 4: Setup Complete		
You have completed your IP camera setup. Please dick the Back button if you want to review or modify your settings or dick on the Apply button to save and apply your settings.		
Motion Detection :	Disable	
EVENT :	Video Clip	
Schedule Day :	Sun ,Mon ,Tue ,Wed ,Thu ,Fri ,Sat ,	
Schedule Time :	From0:0To23:59	
Alerts and Notification :	Email	
Back	Apply	

Step 4: Setup Compl	
	IP camera setup. Please click the Back button if you want to review or modify your settings or click ie and apply your settings.
Changes saved.IP came	ra's network is restarting, please wait for 6 seconds
	Back Apply Cancel

Network Setup

Use this section to configure the network connections for your camera. All relevant information must be entered accurately. After making any changes, click the **Save Settings** button to save your changes.

- LAN Settings: This section lets you configure settings for your local area network.
 - **DHCP:** Select this connection if you have a DHCP server running on your network and would like your camera to obtain an IP address automatically.

If you choose DHCP, you do not need to fill out the IP address settings.

Static IP Address: You may obtain a static or fixed IP address and other network information from your network administrator for your camera. A static IP address may simplify access to your camera in the future.

IP Address: Enter the fixed IP address in this field.

- Subnet Mask: This number is used to determine if the destination is in the same subnet. The default value is 255.255.255.0.
- **Default router:** The gateway used to forward frames to destinations in a different subnet. Invalid gateway settings may cause the failure of transmissions to a different subnet.
- **Primary DNS:** The primary domain name server translates names to IP addresses.
- Secondary DNS: The secondary DNS acts as a backup to the primary DNS.



D-Link DCS-2332L User Manual

Section 3: Configuration

	Enabling this setting allows your camera to be configured as a UPnP device on your network.	 Enable UPnP presentation Enable UPnP port forwardin Forwarding Port Forwarding Status 	g 1024 Test UPnP forwarding is inactive
	Enabling this setting allows the camera to add port forwarding entries into the router automatically on a UPnP capable network.	PPPOE SETTINGS Enable Disable User Name Password Confirm password	
	Enable this setting if your network uses PPPoE. Enter the username and password for your PPPoE account. Re-enter your password in the Confirm Password field. You may obtain this information from your ISP.	PPPoE Status HTTP HTTP port Access name for stream1 Access name for stream2 Access name for stream3	PPPoE is inactive. B0 video1.mjpg video2.mjpg video3.mjpg
HTTP Port:	The default port number is 80.	HTTPS HTTPS port 443	
Access Name for Stream 1~3:	The default name is video#.mjpg, where # is the number of the stream.	RTSP Authentication RTSP port Access name for stream1	Disable
HTTPS Port:	You may use a PC with a secure browser to connect to the HTTPS port of the camera. The default port number is 443.	Access name for stream2 Access name for stream3	live3.sdp
Authentication:	Depending on your network security requirements, the N		

- Authentication: Depending on your network security requirements, the Network Camera provides three types of security settings for streaming via RTSP protocol: disable and digest. If digest authentication is selected, user credentials are encrypted using MD5 algorithm, thus providing better protection against unauthorized access.
 - **RTSP Port:** The port number that you use for RTSP streaming to mobile devices, such as mobile phones or PDAs. The default port number is 554. You may specify the address of a particular stream. For instance, live1.sdp can be accessed at rtsp://x.x.x/video1.sdp where the x.x.x.x represents the ip address of your camera.
- Access name for stream 1 ~ 3: This Network Camera supports multiple streams simultaneously. The access name is used to differentiate the streaming source (video profile).

- **COS SETTING:** Enabling the Class of Service setting implements a best-effort policy without making any bandwidth reservations.
- QOS SETTING: Enabling QoS allows you to specify a traffic priority policy to ensure a consistent Quality of Service during busy periods. If the Network Camera is connected to a router that itself implements QoS, the router's settings will override the QoS settings of the camera.
 - **IPV6:** Enable the IPV6 setting to use the IPV6 protocol. Enabling the option allows you to manually set up the address, specify an optional IP address, specify an optional router and an optional primary DNS.
 - MULTICAST The DCS-2332L allows you to multicast each of the available streams via group address and specify the TTL value for each stream. Enter the port and TTL settings you wish to use if you do not want to use the defaults.

COS SETTINGS	
Enable CoS	
	1 [0~4095]
Live video	0 -
Live audio	0 -
Event/Alarm	0 -
Management	0 -
QOS SETTINGS	
Enable QoS	
Live video	0 -
Live audio	0 •
Event/Alarm	0 -
Management	0 -
IPV6	
Enable IPv6	
IPv6 Information	
Manually setup the IP addr	ess
Optional IP address / Prefi	
Optional default router	
Optional primary DNS	
MULTICAST	
Enable multicast for stream 1	
Enable multicast for stream 1 Multicast group address	239.1.1.1
	239.1.1.1 6550
Multicast group address	
Multicast group address Multicast video port	6550
Multicast group address Multicast video port Multicast RTCP video port	6550 6551
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port	6550 6551 6552
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port	6550 6551 6552 6553
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255]	6550 6551 6552 6553
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255]	6550 6551 6552 6553 64
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address	6550 6551 6552 6553 64 239. 1. 1. 2
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port	6550 6551 6552 6553 64 239.1.1.2 6554
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port	6550 6551 6552 6553 64 239.1.1.2 6554 6555
Multicast group address Multicast video port Multicast RTCP video port Multicast audio port Multicast at RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast audio port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast group address Multicast Video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6555 6556 6557
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast addio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port Multicast RTCP audio port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6556
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast adio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast group address Multicast group address Multicast RTCP video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast Group address	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast Gr stream 3 Multicast group address Multicast video port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3 6558
Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 2 Multicast group address Multicast group address Multicast RTCP video port Multicast RTCP video port Multicast RTCP audio port Multicast RTCP audio port Multicast TTL [1~255] Enable multicast for stream 3 Multicast group address Multicast video port Multicast RTCP video port Multicast RTCP video port	6550 6551 6552 6553 64 239.1.1.2 6554 6555 6556 6557 64 239.1.1.3 6558 6559

Wireless Setup

This section allows you to set up and configure the wireless settings on your camera. After making any changes, click the **Save Settings** button to save your changes.

- Site Survey: Click the Rescan button to scan for available wireless networks. After scanning, you can use the drop-down box to select an available wireless network. The related information (SSID, Wireless Mode, Channel, Authentication, Encryption) will be automatically filled in for you.
 - **SSID:** Enter the SSID of the wireless access point you wish to use.
- Wireless Mode: Use the drop-down box to select the mode of the wireless network you wish to connect to. Infrastructure is normally used to connect to an access point or router. Ad-Hoc is usually used to connect directly to another computer.
 - **Channel:** If you are using Ad Hoc mode, select the channel of the wireless network you wish to connect to, or select Auto.
- Authentication: Select the authentication you use on your wireless network Open, Shared, WPA-PSK, or WPA2-PSK.
 - **Encryption:** If you use WPA-PSK or WPA2-PSK authentication, you will need to specify whether your wireless network uses TKIP or AES encryption. If you use Open or Shared authentication, WEP encryption should be the setting.
 - Key: If you use WEP, WPA-PSK, or WPA2-PSK authentication, enter the Key (also known as password) used for your wireless network.



Dynamic DNS

DDNS (Dynamic Domain Name Server) will hold a DNS host name and synchronize the public IP address of the modem when it has been modified. A user name and password are required when using the DDNS service. After making any changes, click the **Save Settings** button to save your changes.

Enable DDNS: Select this checkbox to enable the DDNS function.

Server Address: Select your Dynamic DNS provider from the pull down menu or enter the server address manually.

Host Name: Enter the host name of the DDNS server.

- User Name: Enter the user name or e-mail used to connect to your DDNS account.
 - Password: Enter the password used to connect to your DDNS server account.

Timeout: Enter the DNS timeout values you wish to use.

Status: Indicates the connection status, which is automatically determined by the system.

2L /// 🛛 🛚	IVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HEL
ed D	WNAMIC DNS					Helpful Hints.
tup () NS SI	www.yourdomain.o	com) to access you service providers a	r IP camera with a d ssign dynamic (chang	e that you have purchase ynamically assigned IP ad ping) IP addresses. By us ur IP camera no matter	dress. Most ng a DDNS	Dynamic DNS is you have a DSL service provide changes your m address periodi will allow you to website domain
Video S	ian up for D-Link's	Free DDNS service	at www.DLinkDDNS	com.		your IP camera connecting thro
		Save Setti	ngs Don't Save	Settings		address.
rection						
late	YNAMIC DNS S	ETTING				
0	nable DDNS	1				
s	ierver Address	www.dinkdd	ns.com	<< www.dinkddns.com	v	
	lost Name					
	Iser Name					
F	assword					
	erify Password					
		24		(hours)		
1	limeout					

Image Setup

In this section, you may configure the video image settings for your camera. A preview of the image will be shown in Live Video.

Enable Privacy Mask: The Privacy Mask setting allows you to specify up to 3 rectangular areas on the camera's image to be blocked/ excluded from recordings and snapshots.

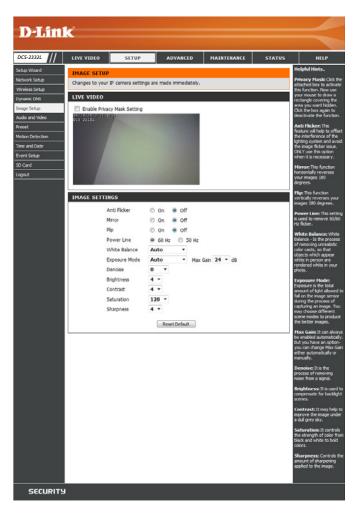
You may click and drag the mouse cursor over the camera image to draw a mask area. Right clicking on the camera image brings up the following menu options:

Disable All: Disables all mask areas **Enable All:** Enables all mask areas **Reset All:** Clears all mask areas.

Anti Flicker: If the video flickers, try enabling this setting.

Mirror: This will mirror the image horizontally.

- Flip: This will flip the image vertically. When turning Flip on, you may want to consider turning Mirror on as well.
- **Power Line:** Select the frequency used by your power lines to avoid interference or distortion.
- White Balance: Use the drop-down box to change white balance settings to help balance colors for different environments. You can choose from Auto, Outdoor, Indoor, Fluorescent, and Push Hold.



- Exposure Mode:
 Changes the exposure mode. Use the drop-down box to set the camera for Indoor, Outdoor, or Night environments, or to Moving to capture moving objects. The Low Noise option will focus on creating a high-quality picture without noise. You can also create 3 different custom exposure modes. The Max Gain setting will allow you to control the maximum amount of gain to apply to brighten the picture.
 IMAGE SETTINGS
 - **Denoise:** This setting controls the amount of noise reduction that will be applied to the picture.
 - Brightness: Adjust this setting to compensate for backlit subjects.
 - **Contrast:** Adjust this setting to alter the color intensity/strength.
 - Saturation: This setting controls the amount of coloration, from grayscale to fully saturated.
 - Sharpness: Specify a value from 0 to 8 to specify how much sharpening to apply to the image.
 - **Reset Default:** Click this button to reset the image to factory default settings.

Anti Flicker	💿 On 💿 Off
Mirror	💿 On 💿 Off
Flip	💿 On 💿 Off
Power Line	60 Hz 50 Hz
White Balance	Auto 🔻
Exposure Mode	Auto • Max Gain 24 • dB
Denoise	0 •
Brightness	4 -
Contrast	4 -
Saturation	128 -
Sharpness	4 🔻

Audio and Video

You may configure up to 3 video profiles with different settings for your camera. Hence, you may set up different profiles for your computer and mobile display. In addition, you may also configure the two-way audio settings for your camera. After making any changes, click the **Save Settings** button to save your changes.

Aspect ratio: Set the aspect ratio of the video to 4:3 standard or 16:9 widescreen.

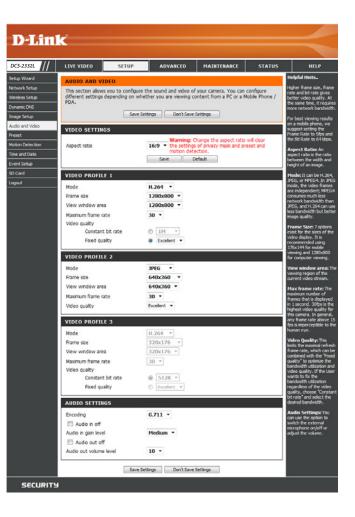
Mode: Set the video codec to be used to JPEG, MPEG-4, or H.264.

Frame size / View window area: Frame size determines the total capture resolution, and View window area determines the Live Video viewing window size. If the Frame size is larger than the Live Video size, you can use the ePTZ controls to look around.

- 16:9 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144
- 4:3 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144

Note: If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

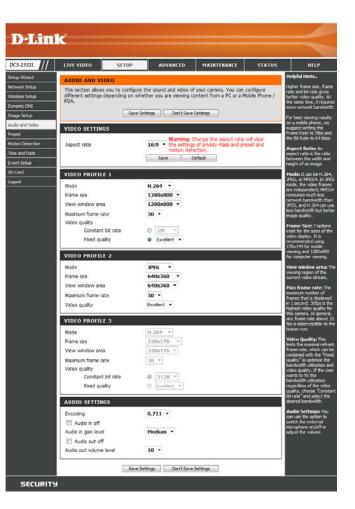
Maximum frame rate: A higher frame rate provides smoother motion for videos, and requires more bandwidth. Lower frame rates will result in stuttering motion, and requires less bandwidth.



- Video Quality: This limits the maximum frame rate, which can be combined with the "Fixed quality" option to optimize the bandwidth utilization and video quality. If fixed bandwidth utilization is desired regardless of the video quality, choose "Constant bit rate" and select the desired bandwidth.
- **Constant bit rate:** The bps will affect the bit rate of the video recorded by the camera. Higher bit rates result in higher video quality.
 - **Fixed quality:** Select the image quality level for the camera to try to maintain. High quality levels will result in increased bit rates.
 - Audio in off: Selecting this checkbox will mute incoming audio.
- Audio in gain level: This setting controls the amount of gain applied to incoming audio to increase its volume.

Audio out off: Selecting this checkbox will mute outgoing audio.

Audio out volume level: This setting controls the amount of gain applied to outgoing audio to increase its volume.



Preset

This screen allows you to set preset points for the ePTZ function of the camera, which allows you to look around the camera's viewable area by using a zoomed view. Presets allow you to quickly go to and view a specific part of the area your camera is covering, and you can create preset sequences, which will automatically change the camera's view between the different presets according to a defined order and timing you can set.

Note: If your View window area is the same as your Frame size, you will not be able to use the ePTZ function.

Video Profile: This selects which video profile to use.

ePTZ Speed: You may select a value between 0 and 64.0 is the slowest and 64 is the fastest.

Arrow Buttons and Home Button: Use these buttons to move to a specific part of the viewing area, which you can then set as a preset. Click the Home button to return to the center of the viewing area.

- Input Preset Name: Enter the name of the preset you want to create, then click the Add button to make a new preset. If an existing preset has been selected from the Preset List, you can change its name by typing in a new name, then clicking the Rename button.
 - **Preset List:** Click this drop-down box to see a list of all the presets that have been created. You can select one, then click the **GoTo** button to change the displayed camera view to the preset. Clicking the **Remove** button will delete the currently selected preset.
 - Preset Sequence: This section allows you to create a preset sequence, which automatically moves the camera's view between a set of preset views.



Preset List: To add a preset to the sequence, select it from the dropdown box at the bottom of this window, set the Dwell time to determine how long the camera view will stay at that preset, then click the Add button. The preset name will appear in the list, followed by the dwell time to view that preset for.

You can rearrange your presets in the sequence by selecting a preset in the sequence, then clicking the arrow buttons to move it higher or lower in the current sequence.

Clicking the trash can button will remove the currently selected preset from the sequence.

If you want to change the dwell time for a preset, select it from the list, enter a new dwell time, then click the **Update** button.

PRESET
Input Preset Name : Add Rename
Support(0~9,A~Z,a~z,-,*/,_) Preset List :Preset List GoTo Remove
PRESET SEQUENCE
Preset Name : Dwell time Entrance: 10 Cubicke: 10 Back_Door: 10
Preset List :Preset List Add Dwell time : 10 Update Second(s)[3~30]

Motion Detection

Enabling Video Motion will allow your camera to use the motion detection feature. You may draw a finite motion area that will be used for monitoring. After making any changes, click the **Save Settings** button to save your changes.

Enable Video Motion: Select this box to enable the motion detection feature of your camera.

- Sensitivity: Specifies the measurable difference between two sequential images that would indicate motion. Please enter a value between 0 and 100.
- **Percentage:** Specifies the amount of motion in the window being monitored that is required to initiate an alert. If this is set to 100%, motion is detected within the whole window will trigger a snapshot.
- **Draw Motion Area:** Draw the motion detection area by dragging your mouse in the window (indicated by the red square).
- **Erase Motion Area:** To erase a motion detection area, simply click on the red square that you wish to remove.

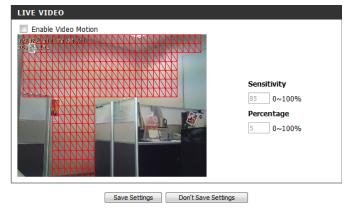
Right clicking on the camera image brings up the following menu options:

Select All: Draws a motion detection area over the entire screen.

Clear All: Clears any motion detection areas that have been drawn.

Restore: Restores the previously specified motion detection areas.





Time and Date

This section allows you to automatically or manually configure, update, and maintain the internal system clock for your camera. After making any changes, click the **Save Settings** button to save your changes.

Time Zone: Select your time zone from the drop-down menu.

Enable Daylight Saving: Select this to enable Daylight Saving Time.

Auto Daylight Saving: Select this option to allow your camera to configure the Daylight Saving settings automatically.

Set Date and Time Manually: Selecting this option allows you to configure the Daylight Saving date and time manually.

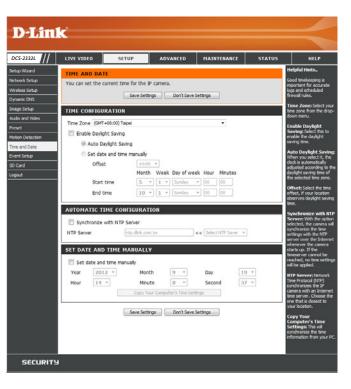
Offset: Sets the amount of time to be added or removed when Daylight Saving is enabled.

Synchronize with NTP Server: Enable this feature to obtain time automatically from an NTP server.

NTP Server: Network Time Protocol (NTP) synchronizes the DCS-2332L with an Internet time server. Choose the one that is closest to your location.

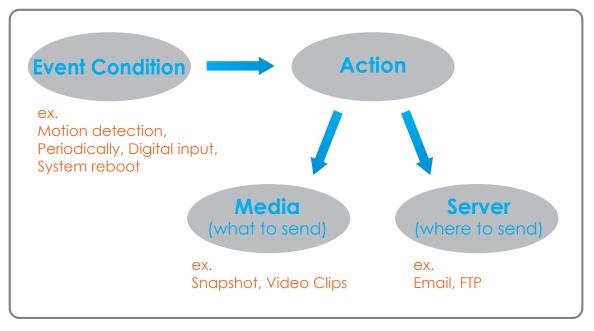
Set the Date and Time Manually: This option allows you to set the time and date manually.

Copy Your Computer's Time This will synchronize the time information from your PC. **Settings:**



Event Setup

In a typical application, when motion is detected, the DCS-2332L sends images to a FTP server or via e-mail as notifications. As shown in the illustration below, an event can be triggered by many sources, such as motion detection or external digital input devices. When an event is triggered, a specified action will be performed. You can configure the Network Camera to send snapshots or videos to your e-mail address or FTP site.



To start plotting an event, it is suggested to configure server and media columns first so that the Network Camera will know what action shall be performed when a trigger is activated.

The Event Setup page includes 4 different sections.

- Event
- Server
- Media
- Recording
- 1. To add a new item "event, server or media," click **Add**. A screen will appear and allow you to update the fields accordingly.
- 2. To delete the selected item from the pull-down menu of event, server or media, click **Delete**.
- 3. Click on the item name to pop up a window for modifying.

D-Linl	e					_
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Sebp Ward Hetrows Sebp Workers Sebp Provent: CMS Insign Sebp Audo and Valeo Preset Hotion Detection Time and Oxie Crent Sebp Godd Logout	Add to pop a ww delete the select window to add it the server and 5 mee SERVER Name Type Add - Dele MEDIA Media freespac Name Ty Add - Dele EVENT Name Statu Add - Dele EVENT	dow to add a new Ki add tem from event, There can be at mo a configurations. Address/Loca at configurations. Address/Loca at configurations. c	em of event, server, i server, media or recor ost 2 events and 1 rec		ecording, Click k Delete to name to pop a at most 5	Helpful Hinks. Support a term is are not made for the before particular and the particular particular and the particular and the particular particular and the particular and the particular particular and the particular and the p
SECURITY						

Add Server

You can configure up to 5 servers to save snapshots and/or video to. After making any changes, click the **Save Settings** button to save your changes.

Server Name: Enter the unique name of your server.

- E-mail: Enter the configuration for the target e-mail server account.
 - **FTP:** Enter the configuration for the target FTP server account.

Network Storage: Specify a network storage device. Only one network storage device is supported.

SD Card: Use the camera's onboard SD card storage.

LIVE VIDEO SETUP	ADVANCED	MAINTENANCE	STATUS
SERVER			
You can set at most 5 different : Test		avent. ave Settings	
SERVER TYPE			
Server Name:			
Email			
Sender email address			
Recipient email addre	55		
Server address			
User name			
Password			
Port	25		
This server requi	ires a secure connection (StartTLS)	
© FTP			
Server address			
Port	21		
User name			
Password			
Remote folder name			
Passive mode			
Network storage			
Network storage loc			
(for example:\\my_n	as\disk\folder)		
Workgroup User name			
Password			

Add Media

There are three types of media, **Snapshot**, **Video Clip**, and **System Log**. After making any changes, click the **Save Settings** button to save your changes.

Media Name: Enter a unique name for media type you want to create.

Snapshot: Select this option to set the media type to snapshots.

Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 40 for more information on video profiles.

Send pre-event image(s) [0~4]: Set the number of pre-event images to take. Pre-event images are images taken before the main event snapshot is taken.

Send post-event image(s) [0~7]: Set the number of post-event images to take. Post-event images are images taken after the main event snapshot is taken. You can set up to 7 post-event images to be taken.

File name prefix: The prefix name will be added on the file name.

Add date and time suffix to file Check it to add timing information as file name suffix. name:

LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	
MEDIA					Helpful I
You can set at m	ost 5 different medi Save Set	a here for different en tings) Don't Save			"Media unique na There are media. The snapshot
MEDIA TYPE					system lo
Media name:					Snapsh Source profile, p
Snapshot					profile2. "Send I images
Source: Pr	ofile 1 💌				"Send F
Send 1	pre-event image	e(s) [0~4]			images post-eve
Send 1	post-event imag	pe(s) [0~7]			"File na prefix na
File Name I	Prefoc				on the fil snapshol
🖾 Add d	ate and time suffix t	o file name			"Add da suffix to
Video Clp					Check it informat
Source: P					suffix.
Pre-event		Second(s) [04]			Video c Source
Maximum d		acond(s) [1~100]			profile, profile2.
File Name I		tes [100~5000]			Pre-e
System log	rent:				of pre-e seconds
O System log					limitation file.
	Save Set	tings Don't Save	Settings		"Maxim The max duration "Maxim The max would be

Video clip: Select this option to set the media type to video clips.

- Source: Set the video profile to use as the media source. Refer to "Audio and Video" on page 46 for more information on video profiles.
- **Pre-event recording:** This sets how many seconds to record before the main event video clip starts. You can record up to 4 seconds of pre-event video.
- Maximum duration: Set the maximum length of video to record for your video clips.
- Maximum file size: Set the maximum file size to record for your video clips.
 - File name prefix: This is the prefix that will be added to the filename of saved video clips.
 - System log: Select this option to set the media type to system logs. This will save the event to the camera system log, but will not record any snapshots or video.



Add Event

Create and schedule up to 2 events with their own settings here. After making any changes, click the **Save Settings** button to save your changes.

Event name: Enter a name for the event.

Enable this event: Select this box to activate this event.

- **Priority:** Set the priority for this event. The event with higher priority will be executed first.
 - **Delay:** Select the delay time before checking the next event. It is being used for both events of motion detection and digital input trigger.

Trigger: Specify the input type that triggers the event.

Video Motion Detection: Motion is detected during live video monitoring. Select the windows that need to be monitored.

Periodic: The event is triggered in specified intervals. The trigger interval unit is in minutes.

System Boot: Triggers an event when the system boots up.

Network Lost: Triggers an event when the network connection is lost.

Passive Infrared Sensor: Triggers an event when the PIR sensor is activated by moving infrared objects even in dark environment.

D-Lin	k					
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
Setup Wizard						Helpful Hints
Network Setup	EVENT	art 2 augusts like m	ation detection or disk	tal input trigger here an	d average the	Priority: The event w
Wireless Setup		le at the same time		carinput cigger nere an	a analige che	higher priority will be executed first.
Dynamic DNS		Save Se	ttings Don't Save	Settings		Delay second(s) before detecting no
Image Setup						event: The delay to
Audio and Video	EVENT					check next event. It is used in motion detection
Preset	Event name:					and digital input trigge type-
Motion Detection	Enable this e					There are five kinds of trigger supported.
went Setup	Priority: normal					
SD Card	Delay for 10 s and Passive Infra		ecting next event [For	motion detection and o	ligital input	Video motion detection: Select the windows which need to be monitored.
ogout	TRIGGER					
	 Video motion Periodic 	n detection				Periodic: The event is triggered in specified intervals. The unit of trigger interval is minu
	Trigger ev	erv 1 minutes				Digital input: The ev
	 System boot 					Digital input: The ev is triggered when the status changed by external device.
	Network lost					
	Passive Infra					System boot: The event is triggered who the system boot up.
	EVENT SCHED					Network lost: The event is Triggered wh the network service is available or
	Concerns of the second s	n 🗹 Tue 🗹 W	ed 🗹 Thu 📝 Fri	🗹 Sat		disconnection.
	Time	lways				Passive Infrared
			To 23 * 59 *			sensor: A passive infrared sensor device (PIR) measures infrar
						light from passing obj in its field of view. It o be worked as a trigge
	ACTION					be worked as a trigge
	Trigger D/O	for 1 second	ds			event if this function enabled.
	Server1					Sun ~ Sat: Select the days of the week to perform the event.
		media: Media1	-			Time: show "Always"
						input the time interval
		Save Se	ttings Don't Save	Settings		The default action are triggering DO and stor media on SD card. If there are servers configured, the user or select them from "Ser- name", too.
						name", too.
						Trigger D0: Check it trigger digital output i specific seconds when event is triggered.
						Note: Please Format 3 card before use. The entire data in the SD: will be erased after formatting.

Time: Select Always or enter the time interval.

Server: Specify the location where the event information should be saved to.



Add Recording

Here you can configure and schedule the recording settings. After making any changes, click the **Save Settings** button to save your changes.

Recording entry name: The unique name of the entry.

Enable this recording: Select this to enable the recording function.

Priority: Set the priority for this entry. The entry with a higher priority value will be executed first.

Source: The source of the stream.

Recording schedule: Scheduling the recording entry.

Recording settings: Configuring the setting for the recording.

Destination: Select the folder where the recording file will be stored.

Total cycling recording size: Please input a HDD volume between 1MB and 2TB for recording space. The recording data will replace the oldest record when the total recording size exceeds this value. For example, if each recording file is 6MB, and the total cyclical recording size is 600MB, then the camera will record 100 files in the specified location (folder) and then will delete the oldest file and create new file for cyclical recording.

Please note that if the free HDD space is not enough, the recording will stop. Before you set up this option please make sure your HDD has enough space, and it is better to not save other files in the same folder as recording files.



Size of each file for recording: If this is selected, files will be separated based on the file size you specify.

Time of each file for recording: If this is selected, files will be separated based on the maximum length you specify.

File Name Prefix: The prefix name will be added on the file name of the recording file(s).



SD Card

Here you may browse and manage the recorded files which are stored on the SD card.

Format SD Card: Click this icon to automatically format the SD card and create "picture" & "video" folders.

View Recorded Picture: If the picture files are stored on the SD card, click on the picture folder and choose the picture file you would like to view.

Playback Recorded Video: If video files are stored on the SD card, click on the video folder and choose the video file you would like to view.

Refresh: Reloads the file and folder information from the SD card.



Advanced ICR and IR

Here you can configure the ICR and IR settings. An IR(Infrared) Cut-Removable(ICR) filter can be disengaged for increased sensitivity in low light environments.

Automatic: The Day/Night mode is set automatically. Generally, the camera uses Day mode and switches to Night mode when needed.

Day Mode: Day mode enables the IR Cut Filter.

Night Mode: Night mode disables the IR Cut Filter.

- Schedule Mode: Set up the Day/Night mode using a schedule. The camera will enter Day mode at the starting time and return to Night mode at the ending time.
- **IR Light Control:** The camera can enable or disable the IR (infrared) light according to your preferences. This setting provides additional controls depending on your specific application.
 - Off: The IR light will always be off.
 - On: The IR light will always be on.
 - Sync: The IR light will turn on when the ICR sensor is on.
 - Schedule: The IR light will turn on or off according to the schedule that you specify below.



HTTPS

This page allows you to install and activate an HTTPS certificate for secure access to your camera. After making any changes, click the **Save Settings** button to save your changes.

Enable HTTPS Secure Connection: Enable the HTTPS service.

Create Certificate Method: Choose the way the certificate should be created. Three options are available:

Create a self-signed certificate automatically Create a self-signed certificate manually Create a certificate request and install

Status: Displays the status of the certificate.

Note: The certificate cannot be removed while the HTTPS is still enabled. To remove the certificate, you must first uncheck **Enable HTTPS secure connection**.



Access List

Here you can set access permissions for users to view your DCS-2332L.

- Allow list: The list of IP addresses that have the access right to the camera.
- Start IP address: The starting IP Address of the devices (such as a computer) that have permission to access the video of the camera. Click Add to save the changes made.

Note: A total of seven lists can be configured for both columns.

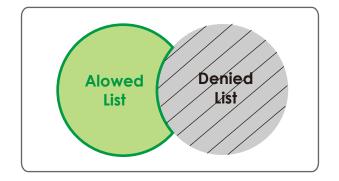
- **End IP address:** The ending IP Address of the devices (such as a computer) that have permission to access the video of the camera.
- **Delete allow list:** Remove the customized setting from the Allow List.
 - **Deny list:** The list of IP addresses that have no access rights to the camera.

Delete deny list: Remove the customized setting from the Delete List.

For example:

When the range of the Allowed List is set from 1.1.1.0 to 192.255.255.255 and the range of the Denied List is set from 1.1.1.0 to 170.255.255.255. Only users with IPs located between 171.0.0.0 and 192.255.255.255 can access the Network Camera.





System

In this section, you may backup, restore and reset the camera configuration, or reboot the camera.

Save To Local Hard Drive: You may save your current camera configuration as a file on your computer.

Local From Local Hard Drive: Locate a pre-saved configuration by clicking Browse and then restore the pre-defined settings to your camera by clicking Load Configuration.

Restore to Factory Default: You may reset your camera and restore the factory settings by clicking **Restore Factory Defaults**.

Reboot Device: This will restart your camera.

2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
	SYSTEM					Helpful Hints
re Upgrade	Here you may bac	ckup, restore, and	reboot your IP camera.			After the factory's default settings ha
eupgrade	SYSTEM					been restored, use installation wizard software provided
	Save To Local Ha	ard Drive	Save Configuration			your IP camera to and connect to the
	Load From Local	Hard Drive		Barrene		camera.
	Luse Hum Luca	halo bive	Load Configuration			
	Restore To Facto	ory Defaults	Restore Factory D	efaults		
	Reboot Device		Reboot Device			

Maintenance Device Management

You may modify the name and administrator's password of your camera, as well as add and manage the user accounts for accessing the camera. You may also use this section to create a unique name and configure the OSD settings for your camera.

Admin Password Setting: Set a new password for the administrator's account.

- Add User Account: Add new user account.
 - User Name: The user name for the new account.
 - **Password:** The password for the new account.
 - User List: All the existing user accounts will be displayed here. You may delete accounts included in the list, but you may want to reserve at least one as a guest account.
 - **Camera Name:** Create a unique name for your camera that will be added to the file name prefix when creating a snapshot or a video clip.
 - **Enable OSD:** Select this option to enable the On-Screen Display feature for your camera.
 - Label: Enter a label for the camera, which will be shown on the OSD when it is enabled.
 - **Show Time:** Select this option to enable the time-stamp display on the video screen.

DISC	,					
D -Linl	C					
DCS-2332L	LIVE VIDEO	SETUP	ADVANCED	MAINTENANCE	STATUS	HELP
DC5-2332	ADMIN Here you can change delete user account(s	the administrator), You can config also enable the e stamp for your D SETTING	's password for your ure the information. SOS (On-Screen Dig video recordings. 63 8 8 20 u	HAINTENANCE IP comma sis well as ad such as IP camera's nar- sity) feature in order to o characters maximum are sers maximum haracters maximum	d and/or ne and time	HELP Rephat Hants. Enabling 0000; 6 to P cannot anow and time dise decayated on the user. The sourch provides at a recommender that you away the passanes of for your advance that we to write a down the the source of the your advance to write the p2 cannot on the event that it is forgetter.
	USER LIST User Name DEVICE SETTING IP camera Name IV canble OSD	- User list DCS-2310.		haracters maximum		
	Label Show trme	OCS-2310.	63 c	haracters maximum		
SECURITY						

Firmware Upgrade

The camera's current firmware version will be displayed on this screen. You may visit the D-Link Support Website to check for the latest available firmware version.

To upgrade the firmware on your DCS-2332L, please download and save the latest firmware version from the D-Link Support Page to your local hard drive. Locate the file on your local hard drive by clicking the **Browse** button. Select the file and click the **Upload** button to start upgrading the firmware.

Current Firmware Version: Displays the detected firmware version.

Current Product Name: Displays the camera model name.

File Path: Locate the file (upgraded firmware) on your hard drive by clicking **Browse**.

Upload: Uploads the new firmware to your camera.



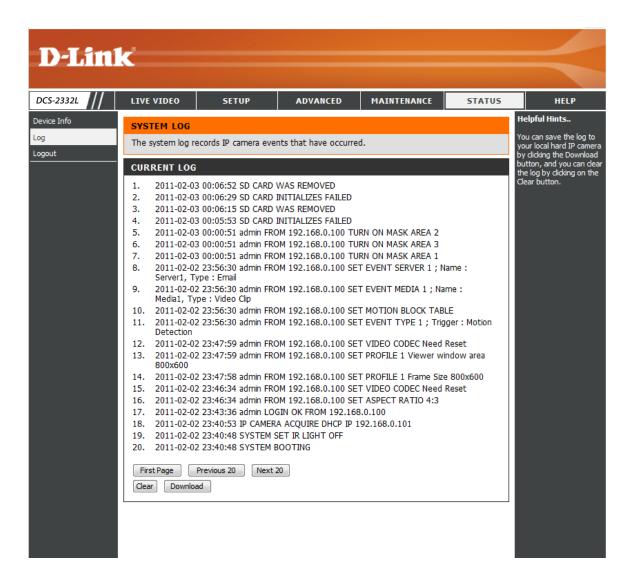
Status Device Info

This page displays detailed information about your device and network connection.



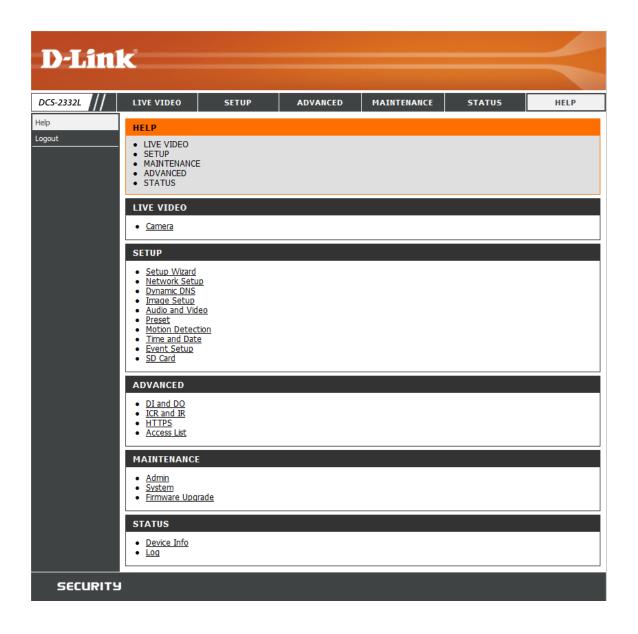
Logs

This page displays the log information of your camera. You may download the information by clicking **Download**. You may also click **Clear** to delete the saved log information.



Help

This page provides helpful information regarding camera operation.



Technical Specifications

Camera	Camera Hardware	1/4" Megapixel progressive CMOS sensor	10x digital zoom
	Profile	5 meter IR illumination distance	Focal length: 3.45 mm
		Minimum illumination: 0 lux with IR LED on	Aperture: F2.0
		Built-in Infrared-Cut Removable (ICR) Filter module	Angle of view:
		 Built-in PIR sensor (5 meter) 	■ (H) 57.8°
		Built-in microphone and speaker	■ (V) 37.8°
			■ (D) 66°
	Image Features	 Configurable image size, quality, frame rate, and bit rate 	 Configurable privacy mask zones
		Time stamp and text overlaysConfigurable motion detection windows	 Configurable shutter speed, brightness, saturation, contrast, and sharpness
	Video Compression	 Simultaneous H.264/MPEG-4/MJPEG format compression H.264/MPEG-4 multicast streaming 	 JPEG for still images
	Video Resolution	16:9 - 1280 x 800, 1280 x 720, 800 x 450, 640 x 360, 480 x 270, 320 x 176, 176 x 144	4:3 - 1024 x 768, 800 x 600, 640 x 480, 480 x 360, 320 x 240, 176 x 144
	Audio Support	G.726, G.711	
	External Device	10/100 BASE-TX Fast Ethernet port	MicroSD/SDHC card slot
	Interface	IEEE 802.11n 2.4GHz single band wireless	
Network	Network Protocols	IEEE 802.11n 2.4GHz single band wireless	HTTP / HTTPS
		IPv6	Samba Client
		IPv4	PPPoE
		TCP/IP	UPnP port forwarding
		UDP	RTP / RTSP/ RTCP
		ICMP	IP filtering
		DHCP client	QoS
		NTP client (D-Link)	CoS
		DNS client	Multicast
		DDNS client (D-Link)	IGMP
		SMTP client	ONVIF compliant
		FTP client	
	Security	 Administrator and user group protection 	 HTTP and RTSP digest encryption
		Password authentication	

System Management	System Requirements for Web Interface	 Operating System: Microsoft Windows 7/Vista/XP/2000 	 Browser: Internet Explorer, Firefox, Chrome, Safari
	Event Management	 Motion detection Event notification and uploading of snapshots/video clips via e-mail or FTP 	 Supports multiple SMTP and FTP servers Multiple event notifications Multiple recording methods for easy backup
	Remote Management	 Take snapshots/video clips and save to local hard drive or NAS via web browser 	 Configuration interface accessible via web browser
	Mobile Support	Windows 7/Vista/XP system, Pocket PC, or mobile phone	mydlink mobile app for iOS and Android mobile devices
	D-ViewCam [™] System Requirements	 Operating System: Microsoft Windows 7/Vista/XP Web Browser: Internet Explorer 7 or higher 	Protocol: Standard TCP/IP
	D-ViewCam [™] Software Functions	 Remote management/control of up to 32 cameras Viewing of up to 32 cameras on one screen 	 Supports all management functions provided in web interface Scheduled motion triggered, or manual recording options
General	Weight	255 g	
	External Power Adaptor	Input: 100 to 240 V AC, 50/60 Hz	Output: 5 V DC, 1.2 A
	Power Consumption	5.5 Watts	
	Temperature	Operating: -25 to 45 °C (-13 to 113 °F)	Storage: -20 to 70 °C (-4 to 158 °F)
	Humidity	Operating: 20% to 80% non-condensing	Storage: 5% to 95% non-condensing
	Certifications	CE CE LVD	FCC C-Tick IP65 IC

